



# Australian Bureau of Statistics

## 1216.0.15.002 - Australian Standard Geographical Classification (ASGC) Concordances, 01 Jul 2008

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## Summary

### Main Page

#### 2008 ASGC AREA BASED CONCORDANCES

The Australian Standard Geographical Classification (ASGC) is a hierarchical classification system of geographical areas and consists of a number of interrelated structures. It provides a common framework of statistical geography and enables the production of statistics which are comparable.

The ASGC 2008 has a date of effect of 1 July 2008.

The product **Australian Standard Geographical Classification (ASGC) Concordances** (cat. no. 1216.0.15.002) contains four separate concordance files. These files are comma delimited and include metadata information that shows the file format.

#### 2008 ASGC Structures Concordance

This file shows the relationship of the Statistical Local Area (SLA) within the 2008 ASGC Structures. This includes the Main Structure, the Statistical District Structure, the Statistical Region Structure and the Local Government Area Structure.

#### 2008 LGA from 2008 SLA Concordance

This file allows the conversion of data from the ASGC Edition 2008 Statistical Local Areas (SLA) to 2008 Local Government Areas (LGA). This area based concordance can be used to translate statistics aggregated by SLA to LGA aggregations.

#### 2008 SLA from 2006 CD Concordance

This file allows the conversion of data from the 2006 Collection Districts (CD) to ASGC Edition 2008 Statistical Local Areas (SLA). This area based concordance can be used to translate statistics aggregated by CD to SLA aggregations.

#### 2008 SLA from 2007 SLA Concordance

This file allows the conversion of data from the 2007 Statistical Local Areas (SLA) to ASGC Edition 2008 Statistical Local Areas (SLA). This area based concordance can be used to translate statistics aggregated by 2007 SLA to 2008 SLA aggregations.

# Product Brief

## 2008 ASGC AREA BASED CONCORDANCES PRODUCT BRIEF

### Introduction

The Australian Bureau of Statistics (ABS) has developed several concordance products that enable users to convert data for one type of geographic area to another.

There are two types of concordances that the ABS produces, a population based concordance and an area based concordance. This publication contains area based concordances only.

The area based concordance expresses the percentage of the "From" area contained within the "To" area. The population weighted concordance expresses the percentage of the "From" area's population contained within the "To" area. Population weighted concordances **ABS Postal Area Concordances, August 2006** (cat. no. 2905.0.55.001) are available from the ABS website and are only available for geographies from the same Census years.

### ***The Area Based concordance***

The area based concordance is based on the area of the "From" area contained in the "To" Area. This is calculated using a GIS system.

In the area based concordance there may be situations where the boundaries do not align perfectly and a very, very small percentage of one area is contained in another. In these cases if the percentage calculated is below 0.001 percent then the figure is set to zero (0), similarly if the percentage is greater than 99.999 percent the value is set to 1.0.

### ***File Format***

The file naming convention is :

Character and Meaning

- 1 "C" for Concordance
- 2 "A" for Area Based Concordance
- 3-6 Year of To Area
- 7-9 Type of To Area eg, "SLA" \*\*
- 10 " "
- 11-14 Year of From Area
- 15-17 Type of From Area eg, "SLA" \*\*

\*\* in some cases the Area type is two characters, eg "CD", adjust character count appropriately

For Example

CA2008SLA\_2006CD.txt is the text file containing the information concording 2006 Census Collection Districts to 2008 SLAs based on the area concordance principal.

The "From Area" and "To Area" naming convention is "Mathematically based"

"To Area" = "From Area" multiplied by ratio

105051100 = 123456565 \* 0.505

105051200 = 123456565 \* 0.595

**Concordance files are comma-delimited text files.**

Field Name\*\*\* Type

To area Code Character  
To area Name Character  
From Area Code Character  
From Area Name Character  
Ratio Number  
Percentage Number

\*\*\* Field Names will vary from file to file but are consistent in nature. The field name is constructed from the area type and date. For example the code field from the 2008 SLA file will have the name "SLA\_2008\_Code", and the name field from the 2008 SLA file will have the name "SLA\_2008\_Name". It is important to note the placement/ positioning convention as it is similar to the file naming convention

Percentage - figure expressed as a percentage ranges from 100 to 0

Ratio - figures expresses as part of 1 - actual figures can be up to 10 decimal places and are expressed in mathematical terms - 4.77810788750317e-04 which is 0.000477810788750317

For example:

"SLA\_2008\_Code","SLA\_2008\_Name","CD\_2006\_Code","CD\_2006\_Name","Ratio","Percent"

105051100,Botany Bay (C),1421807,1421807, 1, 100  
105051100,Botany Bay (C),1421806,1421806, 1, 100  
105051100,Botany Bay (C),1421805,1421805, 1, 100  
105051100,Botany Bay (C),1421804,1421804, 1, 100  
105051100,Botany Bay (C),1421809,1421809, 1, 100

Or

"SLA\_2008\_Code","SLA\_2008\_Name","CD\_2006\_Code","CD\_2006\_Name","Ratio","Percent"

105051100,Botany Bay (C),1421909,1421909, .999886150596782,  
99.9886150596782  
105051100,Botany Bay (C),1421808,1421808, .999993652481281,  
99.9993652481281  
105051100,Botany Bay (C),1421907,1421907, .999972553418185,  
99.9972553418185  
105051100,Botany Bay (C),1421904,1421904, .999994750369691,  
99.9994750369691  
105051100,Botany Bay (C),1421903,1421903, .999986839499272,  
99.9986839499272

The "From Area" and "To Area" naming convention is "Mathematically based"

"To Area" = "From Area" multiplied by ratio

$$\begin{aligned}105051100 &= 105055200 * 0.9795 \\105051100 &= 105055200 * 0.0001 \\105051200 &= 105106550 * 0.0004\end{aligned}$$

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For enquires please contact the ABS Geography Section, see details below.

ABS Geography Section

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July 2008

## 2008 Australian Standard Geographical Classification Structures Concordance

### 2008 AUSTRALIAN STANDARD GEOGRAPHICAL CLASSIFICATION (ASGC) STRUCTURES CONCORDANCE

This file shows the relationship of the Statistical Local Area (SLA) within the 2008 ASGC Structures: the Main Structure, the Statistical District Structure, the Statistical Region Structure and the Local Government Area Structure. The file contains a total of 1397 records. Off-Shore Areas & Migratory SLAs are included in this count.

File Name: 'ASGC2008\_Structures.txt'

Format: ASCII, comma delimited

ASGC Edition 2008 - date of effect 1 July 2008

#### Record Structure

Field Name

- 1 Statistical Local Area Maincode 2008 ("SLA\_MAINCODE\_2008")
- 2 Statistical Local Area Name 2008 ("SLA\_NAME\_2008")
- 3 Statistical Local Area 5 Digitcode 2008 ("SLA\_5DIGITCODE\_2008")
- 4 Statistical Subdivision Code 2008 ("SSD\_CODE\_2008")
- 5 Statistical Subdivision Name 2008 ("SSD\_NAME\_2008")
- 6 Statistical Division Code 2008 ("SD\_CODE\_2008")
- 7 Statistical Division Name 2008 ("SD\_NAME\_2008")
- 8 State Code 2008 ("STATE\_CODE\_2008")
- 9 State Name 2008 ("STATE\_NAME\_2008")

- 10 Statistical District Code 2008 ("SDIST\_CODE\_2008")
- 11 Statistical District Name 2008 ("SDIST\_NAME\_2008")
- 12 Major Statistical Regions Code 2008 ("MSR\_CODE\_2008")
- 13 Major Statistical Regions Name 2008 ("MSR\_NAME\_2008")
- 14 Statistical Regions Code 2008 ("SR\_CODE\_2008")
- 15 Statistical Regions Name 2008 ("SR\_NAME\_2008")
- 16 Statistical Regions Sector Code 2008 ("SRS\_CODE\_2008")
- 17 Statistical Regions Sector Name 2008 ("SRS\_NAME\_2008")
- 18 SLA Region Code 2008 ("SLA\_REGIONCODE\_2008")
- 19 Local Government Area Code 2008 ("LGA\_CODE\_2008")
- 20 Local Government Area Name 2008 ("LGA\_NAME\_2008")

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## **2008 LGA from 2008 SLA Concordance (LGA\_SLA)**

### **LOCAL GOVERNMENT AREA 2008 (LGA) FROM STATISTICAL LOCAL AREA 2008 (SLA) CONCORDANCE**

This file identifies which 2008 LGAs comprise of which SLAs in 2008. The file contains a total of 1389 records. Off-Shore Areas & Migratory SLAs are not included.

Format: ASCII, comma delimited.

File name CA2008LGA\_2008SLA.txt.

### **Record Structure**

#### **Field Name**

- 1 Local Government Area Code 2008 ("LGA\_2008\_CODE")
- 2 LGA Name 2007 ("LGA\_2008\_NAME")
- 3 Statistical Local Area Code 2007 ("SLA\_2008\_CODE")
- 4 SLA Name 2007 ("SLA\_2008\_NAME")
- 5 Ratio
- 6 Percent

**Ratio** - figures expressed as part of 1 - actual figures can be up to 10 decimal places and are expressed in mathematical terms - 4.77810788750317e-04 which is 0.000477810788750317

**Percentage** - figure expressed as a percentage ranges from 100 to 0

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## **2008 SLA from 2006 CD Concordance (SLA\_CD)**

## **2008 STATISTICAL LOCAL AREA (SLA) FROM 2006 COLLECTION DISTRICTS (CD) CONCORDANCE**

This file identifies which 2008 SLAs comprise of which 2006 CDs.

The file contains a total of 39,905 records. CDs outside of the SLA boundary are not included such as Off-shore, Shipping and Migratory CDs.

File Name: 'CA2008SLA\_2006CD.txt'

Format: ASCII, comma delimited

### **Record Structure**

Field Name

- 1 Statistical Local Area 2008 Code ("SLA\_2008\_Code")
- 2 Statistical Local Area 2008 Name ("SLA\_2008\_Name")
- 3 Collection District 2006 Code ("CD\_2006\_Code")
- 4 Collection District 2006 Name ("CD\_2006\_Name")
- 5 Ratio
- 6 Percent

**Ratio** - figures expressed as part of 1 - actual figures can be up to 10 decimal places and are expressed in mathematical terms - 4.77810788750317e-04 which is 0.000477810788750317

**Percentage** - figure expressed as a percentage ranges from 100 to 0

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## **2008 SLA from 2007 SLA Concordance (SLA\_SLA)**

### **2008 STATISTICAL LOCAL AREA (SLA) FROM 2007 STATISTICAL LOCAL AREA (SLA) CONCORDANCE**

This file assists in the conversion of 2008 SLAs from 2007 SLAs. The file contains a total of 2151 records. Off-Shore Areas & Migratory SLAs are not included.

File Name: 'CA2008SLA\_2007SLA.txt'

Format: ASCII comma delimited

### **Record Structure**

Field Name

- 1 Statistical Local Area 2008 Code ("SLA\_2008\_Code")
- 2 Statistical Local Area 2008 Name ("SLA\_2008\_Name")

- 3 Statistical Local Area 2007 Code ("SLA\_2007\_Code")
- 4 Statistical Local Area 2007 Name ("SLA\_2007\_Name")
- 5 Ratio
- 6 Percentage

**Ratio** - figures expressed as part of 1 - actual figures can be up to 10 decimal places and are expressed in mathematical terms - 4.77810788750317e-04 which is 0.000477810788750317

**Percentage** - figure expressed as a percentage ranges from 100 to 0

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## About this Release

These concordances consist of 4 zipped comma delimited files for the current edition of the ASGC. These are: previous Census Collection District to current SLA concordance; current SLA to current LGA concordance, previous year SLA to current SLA concordance; and a hierarchy list of all levels of the current ASGC edition. These concordances do not concord between the ASGC and non-ASGC Geographies such as Postcodes.

Further information may be obtained from Geography by emailing [geography@abs.gov.au](mailto:geography@abs.gov.au)

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